

Abstract

The present invention is to provide a composite carrier, which is spheric particles obtainable by contacting magnesium halide with one or more electron donor compounds to form a solution, then mixing the solution with silica material having an average particle size of less than 10 microns to form a mixture, and drying the mixture through spray drying process. The present invention is also to provide a catalyst component comprising said composite carrier. When the catalyst component is used together with a cocatalyst component in propylene polymerization, it exhibits higher polymerization activity and stereospecificity, and can be used to prepare high impact resistant ethylene-propylene copolymer having high ethylene content.